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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,143	01/11/2002	Wei Lin	03493.00337	5827
26652	7590	07/09/2007		
AT&T CORP. ROOM 2A207 ONE AT&T WAY BEDMINSTER, NJ 07921			EXAMINER BATURAY, ALICIA	
			ART UNIT 2155	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/042,143

Applicant(s)

LIN ET AL.

Examiner

Alicia Baturay

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --.

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 May 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 3-12, 14-23, 25-34 and 36-44 is/are pending in the application.
- 4a) Of the above claim(s) 45-56 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3-12, 14-23, 25-34 and 36-44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 January 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>06262007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is in response to a request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), which was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8 May 2007 has been entered.
2. Claims 1, 3, 6-9, 12, 14, 17-20, 23, 25, 28-32, 34, 36 and 39-42 were amended.
3. Claims 2, 13, 24 and 35 were cancelled.
4. Claims 1, 3-12, 14-23, 25-34 and 36-44 are pending in this Office Action.

Response to Amendment

5. The rejection is respectfully maintained as set forth in the last Office Action mailed on 06 December 2006. Applicant's arguments with respect to claims 1, 3-12, 14-23, 25-34 and 36-44 have been fully considered but they are not persuasive and the old rejection maintained.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1, 3-6, 9-12, 14-17, 20-23, 25-28, 31-34, 36-39 and 42-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Yagil et al. (U.S. 6,732,315).

8. With respect to claim 12, Yagil teaches a method for providing access to a communications medium, the communications medium being suitable for allowing use of a plurality of Home Phoneline Network (HPN) frames, each HPN frame being timed to allow a plurality of physical layer priority level slots, the method comprising the steps of:

Transmitting the plurality of Home Phoneline Network frames on the communications medium, each pair of Home Phoneline Network frames having timing to allow an Inter-Frame Gap (IFG), the IFG comprising a blocking signal, the blocking signal adapted to prevent an HPNA v2 station (v2 STA) from recognizing the IFG (Yagil, col. 11, lines 51-67); transmitting a message from a Media Control Station (MC STA) (Yagil, Fig. 4, element 404; col. 5, lines 19-33 and col. 10, lines 33-41) to at least one selected non-Media Control Station (non-MC STA) when the Home Phoneline Network frames are transmitted (Yagil, Fig. 4, element 300; col. 5, lines 34-46 and col. 11, lines 51-67), the transmitted message being transmitted with a highest physical layer priority level available in an HPNA v2 frame (Yagil, col. 10, lines 23-41); and receiving a reply message to the transmitted message at the MC STA from a selected non-MC STA when the Home Phoneline Network frames are transmitted (Yagil, col. 10, lines 23-28).

9. With respect to claim 14, Yagil teaches the invention described in claim 12, including the method where each blocking frame comprised by the plurality of Home Phoneline Network frames includes a Blocking Frame Type field (Yagil, col. 9, line 60 – col. 10, line 2).
10. With respect to claim 15, Yagil teaches the invention described in claim 14, including the method where information contained in the Blocking Frame Type field identifies a frame type that is known to a v2 STA (Yagil, col. 9, line 48 – col. 10, line 2).
11. With respect to claim 16, Yagil teaches the invention described in claim 14, including the method where information contained in the Blocking Frame Type field identifies a frame type that is unknown to a v2 STA (Yagil, col. 11, lines 11-28).
12. With respect to claim 17, Yagil teaches the invention described in claim 12, including the method where each blocking frame comprised by the plurality of Home Phoneline Network frames is assigned a highest HPNA v2 priority available in an HPNA v2 frame (Yagil, col. 10, lines 23-41).
13. With respect to claim 20, Yagil teaches the invention described in claim 12, including the method where each blocking frame comprised by the plurality of Home Phoneline Network frames includes a payload encoding field (Yagil, col. 9, line 48 – col. 10, line 2).

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14. With respect to claim 21, Yagil teaches the invention described in claim 20, including the method where each payload encoding field includes information that is known to a v2 STA (Yagil, col. 9, line 48 – col. 10, line 2).
15. With respect to claim 22, Yagil teaches the invention described in claim 21, including the method where each payload encoding field includes information that is unknown to a v2 STA (Yagil, col. 11, lines 11-28).
16. Claims 1, 3-6, 9-11, 23, 25-28, 31-34, 36-39 and 42-44 do not teach or define any new limitations above claim 12, 14-17 and 20-22 and therefore are rejected for similar reasons.

Claim Rejections - 35 USC § 103

17. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

18. Claims 7, 8, 18, 19, 29, 30, 40 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yagil and further in view of Mallory (U.S. 6,954,800).

Yagil teaches the invention substantially as claimed including a home networking transmitter, receiver, station, network manager, network and method adapted to network

devices over phone lines in a home. A bandwidth other than the 4 to 10 MHz band defined in the HomePNA 2.0x. specification and a Baud rate higher than 4M baud may be used for communications between a plurality of devices. PHY and MAC layers are improved to increase the performance of home phone line networks (see Abstract).

19. With respect to claim 18, Yagil teaches the invention described in claim 12, including a method for providing access to a communications medium, the communications medium being suitable for allowing use of a plurality of Home Phoneline Network (HPN) frames, each HPN frame being timed to allow a plurality of physical layer priority level slots, the method comprising the steps of: transmitting the plurality of Home Phoneline Network frames on the communications medium, each pair of Home Phoneline Network frames having timing to allow an Inter-Frame Gap (IFG), the IFG comprising a blocking signal, the blocking signal adapted to prevent an HPNA v2 station (v2 STA) from recognizing the IFG (Yagil, col. 11, lines 51-67); transmitting a message from a Media Control Station (MC STA) (Yagil, Fig. 4, element 404; col. 5, lines 19-33 and col. 10, lines 33-41) to at least one selected non-Media Control Station (non-MC STA) when the Home Phoneline Network frames are transmitted (Yagil, Fig. 4, element 300; col. 5, lines 34-46 and col. 11, lines 51-67), the transmitted message being transmitted with a highest physical layer priority level available in an HPNA v2 frame (Yagil, col. 10, lines 23-41); and receiving a reply message to the transmitted message at the MC STA from a selected non-MC STA when the Home Phoneline Network frames are transmitted (Yagil, col. 10, lines 23-28).

Yagil does not explicitly teach the use of a scrambler initialization field.

However, Mallory teaches the method where each blocking frame includes a scrambler initialization field having a fixed length (Mallory, col. 12, lines 57-60).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yagil in view of Mallory in order to enable the use of a blocking frame type field. One would be motivated to do so in order to enhancing network transmission between stations on a priority-enabled frame-based communications network, the communications network having multiple transmit priorities and transmitting frames such that a network access time to transmit a frame of a lower transmit priority is longer than a network access time to transmit a frame of a higher transmit priority (Mallory, col. 3, lines 57-63).

20. With respect to claim 19, Yagil teaches the invention described in claim 12, including a method for providing access to a communications medium, the communications medium being suitable for allowing use of a plurality of Home Phonetline Network (HPN) frames, each HPN frame being timed to allow a plurality of physical layer priority level slots, the method comprising the steps of: transmitting the plurality of Home Phonetline Network frames on the communications medium, each pair of Home Phonetline Network frames having timing to allow an Inter-Frame Gap (IFG), the IFG comprising a blocking signal, the blocking signal adapted to prevent an HPNA v2 station (v2 STA) from recognizing the IFG (Yagil, col. 11, lines 51-67); transmitting a message from a Media Control Station (MC STA) (Yagil, Fig. 4, element 404; col. 5, lines 19-33 and col. 10, lines 33-41) to at least one selected non-Media Control Station (non-MC STA) when the Home Phonetline Network

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frames are transmitted (Yagil, Fig. 4, element 300; col. 5, lines 34-46 and col. 11, lines 51-67), the transmitted message being transmitted with a highest physical layer priority level available in an HPNA v2 frame (Yagil, col. 10, lines 23-41); and receiving a reply message to the transmitted message at the MC STA from a selected non-MC STA when the Home Phoneline Network frames are transmitted (Yagil, col. 10, lines 23-28).

Yagil does not explicitly teach the use of a scrambler initialization field.

However, Mallory teaches the method where each blocking frame includes a scrambler initialization field having a variable length (Mallory, col. 16, lines 2-3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yagil in view of Mallory in order to enable the use of a blocking frame type field. One would be motivated to do so in order to enhancing network transmission between stations on a priority-enabled frame-based communications network, the communications network having multiple transmit priorities and transmitting frames such that a network access time to transmit a frame of a lower transmit priority is longer than a network access time to transmit a frame of a higher transmit priority (Mallory, col. 3, lines 57-63).

21. Claims 7, 8, 29, 30, 40 and 41 do not teach or define any new limitations above claims 18 and 19 and therefore are rejected for similar reasons.

Response to Arguments

22. Applicant's arguments filed 8 May 2007 have been fully considered, but they are not persuasive for the reasons set forth below.
23. ***Applicant Argues:*** Yagil does not teach "each pair of Home Phoneline Network frames having timing to allow an Inter-Frame Gap (IFG), the IFG comprising a blocking signal adapted to prevent an HPNA v2 station (v2 STA) from recognizing the IFG."

In Response: The examiner respectfully submits that Yagil teaches each pair of Home Phoneline Network frames (when a block of consecutive MAP-granted packets) having timing to allow an Inter-Frame Gap (IFG) (when a few granted bursts are transmitted consecutively, the Inter-Frame Gap (IFG)), the IFG comprising a blocking signal adapted to prevent an HPNA v2 station (v2 STA) from recognizing the IFG (when a block of consecutive MAP-granted packets...HomePNA 2.0x stations regard the block as one long message. Therefore, HomePNA 2.0x stations will have no transmission opportunities during the transmission of this block – see Yagil, col. 11, lines 51-67). This renders the rejection proper, and thus the rejection stands.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Baturay whose telephone number is (571) 272-3981. The examiner can normally be reached at M-Th 7:15 - 5pm, 2nd Fridays 7:15-3:45, and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia Baturay
June 27, 2007


SALEH NAJJAR
SUPERVISORY PATENT EXAMINER